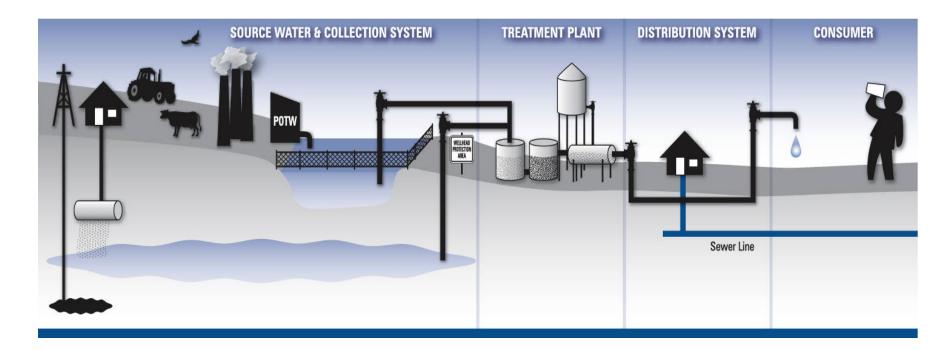
Using GIS Data & Tools to Support Source Water Protection Targeting Resources Through Program Integration



William R. Diamond, Director, EPA Drinking Water Protection Division, Office of Ground Water and Drinking Water National Source Water Protection Conference, Session A3

June 2, 2003, 1:30 – 3:00 p.m.

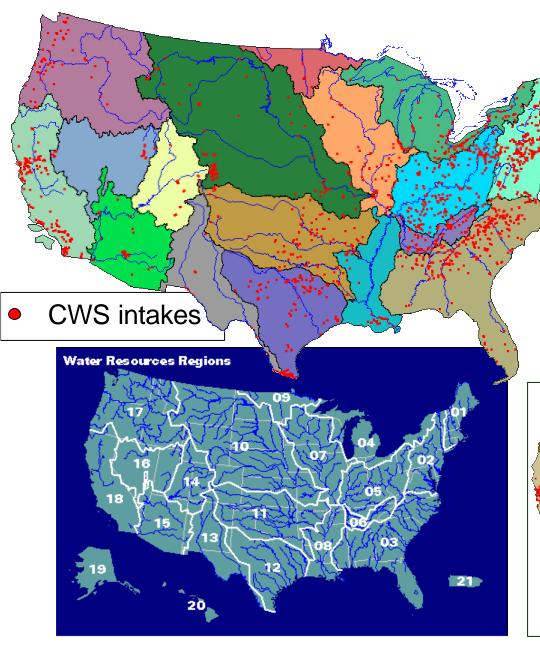
Washington, D.C.

How Does GIS Support EPA SWP Role?

- <u>Program Integration</u> Builds CWA/SDWA program integration through common geographic reference point
- <u>Targeting of Resources</u> Facilitates priority use of federal resources through co-location of regulated entities in SWAs
- Collaboration with States and Locals Provides geographic basis to pursue joint initiatives with States and locals

What GIS Data and Tools Are Available to EPA?

- Office of Water GIS Platform -- Water programs have access to common GIS data and aps through WATERS
- Access to Other EPA Data Other GIS coverages and program data available from Envirofacts
- <u>State Locational Data In SDWIS</u> States are source of well/intake lat/long and SWA data, linked to PWS inventory
- Intake Data Georeferenced to NHD All OW data indexed to USGS stream reach network.

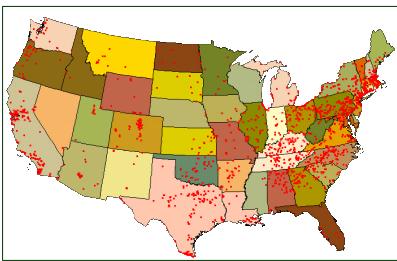


CWS

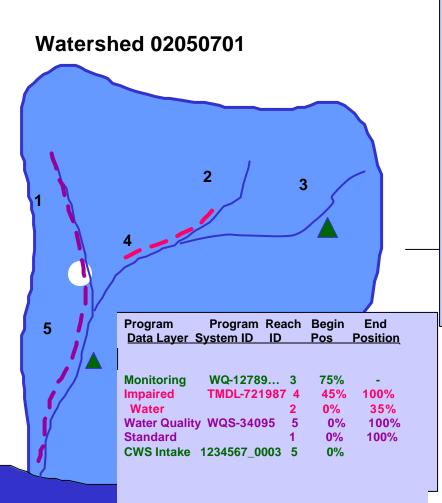
Intakes Roughly 7000 intakes

Initial locations verified to 6 seconds using **DeLORME Data**

Includes source and associated river names



Indexing to National Hydrography Dataset (NHD)



Rich cartographic feature content for making maps

A <u>stream addressing system</u> for linking water-related information to the national drainage network

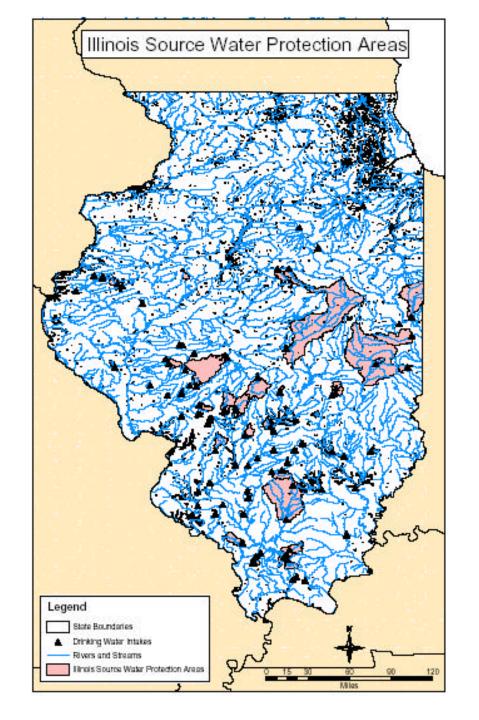
Over 2,200 8-digit HUCs

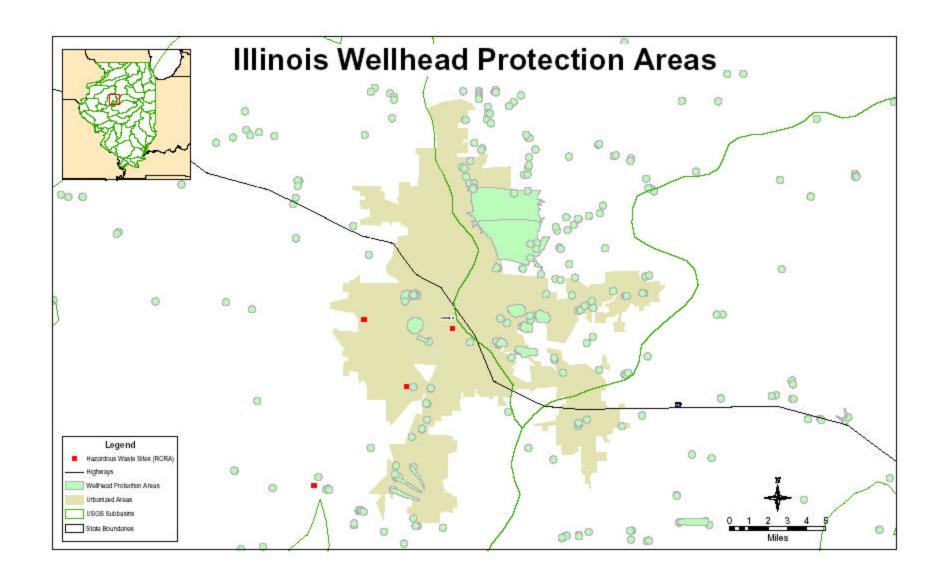
3 million linear reaches

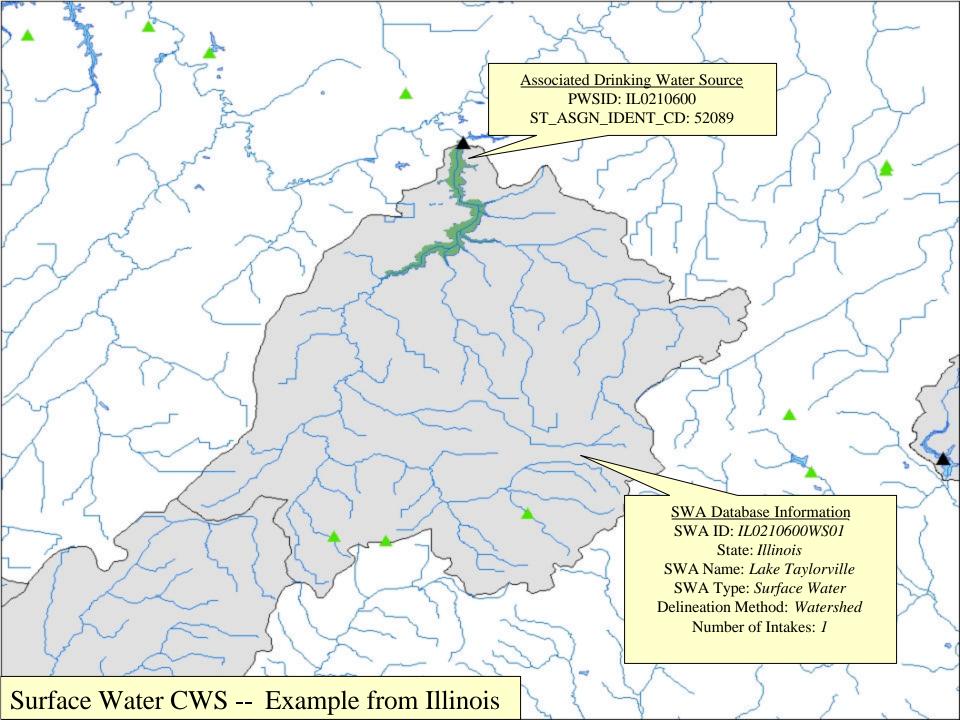
Upstream/downstream <u>modeling</u> along the drainage network

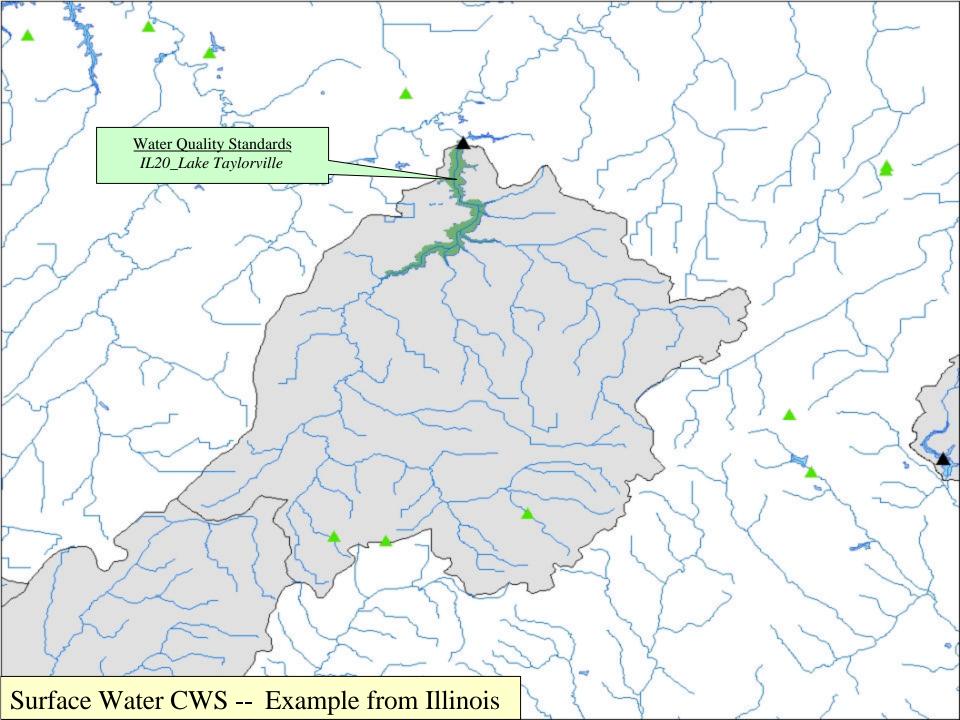
Data available at http://nhd.usgs.gov

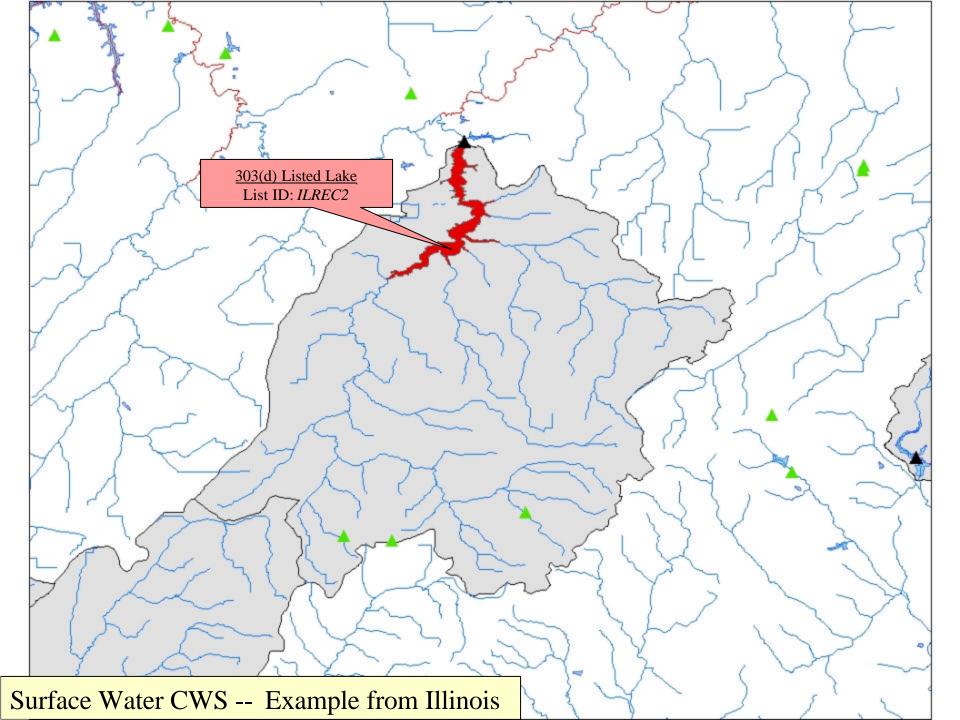
How are We Using GIS An Example

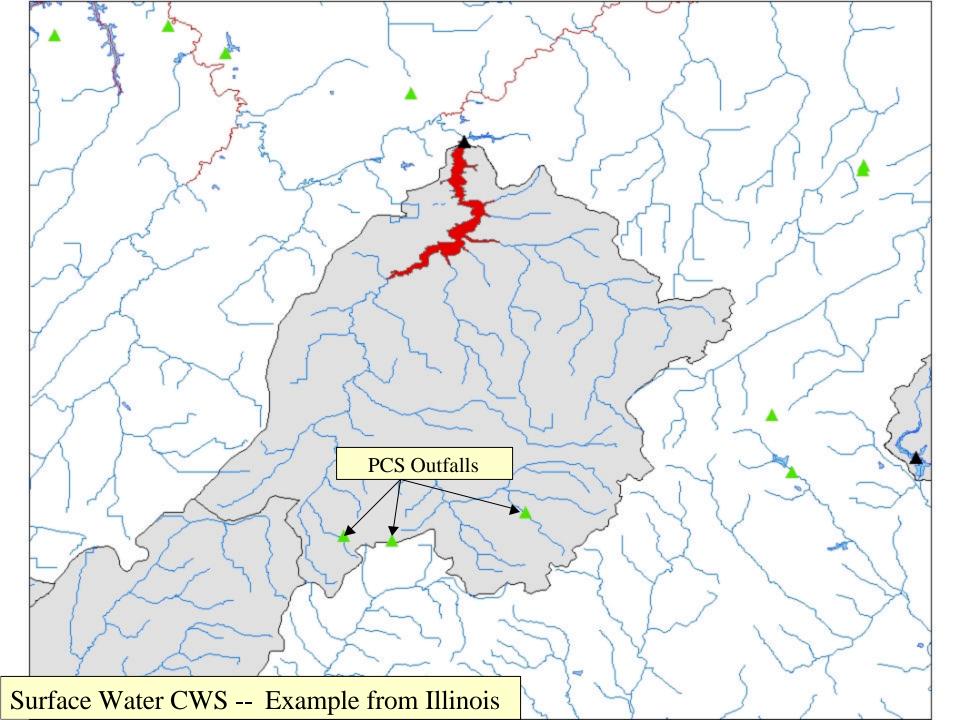












Preliminary national map documenting coordination of CWA and SDWA programs



How Can We Work Together to Improve GIS Use?

Share GIS Data

Help EPA Improve Data Used in GIS Aps

Build GIS Capability

Collaborate on Program Analyses

Any Questions??

Bill Diamond, Director, EPA Drinking Water Protection Division, Office of Ground Water and Drinking Water (Email: diamond.bill@epa.gov)

WATERS
 (www.epa.gov/waters)

